Dissolved Oxygen Protocol (Test Kit)

Field Guide

What You Need

Task

Measure the dissolved oxygen of your water sample using a test kit.

What rou Need	
🗖 Hydrology Investigation Data Sheet	☐ Distilled water
☐ Latex gloves	lacksquare Waste bottle with cap for used chemicals
☐ Goggles	Pen or pencil
Dissolved oxygen kit	

In the Field

- 1. Fill in the top of the Hydrology Investigation Data Sheet.
- 2. Put on the gloves and goggles.
- 3. Rinse the sample bottle and your hands with sample water three times.
- 4. Place the cap on the empty sample bottle.
- 5. Submerge the sample bottle in the sample water.
- 6. Remove the cap and let the bottle fill with water. Move the bottle gently or tap it to get rid of air bubbles.
- 7. Put the cap on the bottle while it is still under the water.
- 8. Remove the sample bottle from the water. Turn the bottle upside down to check for air bubbles. If you see air bubbles, discard this sample. Collect another sample.
- 9. Follow the directions in your Dissolved Oxygen Kit to test your water sample.
- 10. Record the dissolved oxygen in your water sample on the Data Sheet as Observer 1.
- 11. Have two other students repeat the measurement using a new water sample each time.
- 12. Record their data on the Data Sheet as Observers 2 and 3.
- 13. Calculate the average of the three measurements.
- 14. Each of the three measurements should be within 1 mg/L of the average. If one of the measurements is not within 1 mg/L of the average, find the average of the other two measurements. If both of these measurements are within 1 mg/L of the new average, record this average.
- 15. Discard all used chemicals into the waste container. Clean your dissolved oxygen kit with distilled water.